

Title (en)

NORMAL DETECTION METHOD, NORMAL DETECTION DEVICE, AND MACHINING MACHINE PROVIDED WITH NORMAL DETECTION FUNCTION

Title (de)

NORMALDETEKTIONSVERFAHREN, NORMALDETEKTIONSVORRICHTUNG UND BEARBEITUNGSMASCHINE MIT NORMALDETEKTIONSFUNKTION

Title (fr)

PROCÉDÉ DE DÉTECTION NORMALE, DISPOSITIF DE DÉTECTION NORMALE, ET MACHINE D'USINAGE DOTÉE D'UNE FONCTION DE DÉTECTION NORMALE

Publication

EP 2827098 A1 20150121 (EN)

Application

EP 12868552 A 20120228

Priority

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- JP 2012054853 W 20120228

Abstract (en)

A normal detection method for measuring the distance to a measurement subject (20) using one or more distance detectors (30), and obtaining a normal vector (Vn) on the measured surface (21) of the measurement subject (20) from the obtained measurement result (L), wherein: within a three-dimensional space, the straight line linking a first measurement point (Qa) measured at a first measurement position (Pa) using the distance detector (30) and a second measurement point (Qd) measured at a second measurement position (Pd) different from the first measurement position (Pa) is set as a first vector (Vad); the straight line linking the first measurement point (Qa) and a third measurement point (Qf) measured at a third measurement position (Pf) different from the first measurement position (Pa) and the second measurement position (Pd) as a second vector (Vaf); and a normal vector (Vn) on the measured surface (21) is obtained by determining the vector product of the first vector (Vad) and the second vector (Vaf).

IPC 8 full level

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